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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yoko AIDA et al.

Group Art Unit: Unknown

Serial No : 09/787,437
(National Stage of PCT/JP99/00388)

Examiner: Unknown

Filed : March 27, 2001
(International Filing Date January 29, 1999)

For : APOPTOSIS INDUCING AGENT

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants hereby bring the following information to the attention of the Examiner in charge of the above-identified application, which includes information cited and discussed in the specification.

(1) J.F. Kerr et al, "Apoptosis: A Basic Biological Phenomenon with Wide-Ranging Implications in Tissue Kinetics", BR. J. Cancer, Vol. 26, pp. 239-257 (1972);

(2) Akio Adachi et al, "Production of Acquired Immunodeficiency Syndrome-Associated Retrovirus in Human and Nonhuman Cells Transfected with an Infectious Molecular Clone", Journal of Virology, Vol. 59, No. 2, pp. 284-291 (1986);

(3) Wilfried Kramer et al., "Oligonucleotide-Directed Construction of Mutations via Gapped Duplex DNA", in Methods in Enzymology, Vol. 154, p. 350-367 (1987); and

(4) "Basic Methodology" in PCR Technology, pp. 1-5 (Erich editor, Stockton Press 1989).

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Applicants submit a copy of the Translation of the International Preliminary Examination Report, dated January 4, 2001, conducted in International Application No. PCT/JP99/00388.

Applicants also refer the Examiner to the International Search Report, dated May 11, 1999, conducted in International Application No. PCT/JP99/00388. A copy of the International Search Report was filed at the same time this application was filed. Since the International Search Report is in English, the examiner is referred to the report for the relevance of the cited documents. In particular, the International Examiner cited:

(5) Ayyavoo et al., "HIV-1 Vpr Suppress Immune Activation and Apoptosis Through Regulation of Nuclear Factor Kappa B." Nat. Med. (N.Y.) vol. 3, No. 10, pp 1117-1123 (1997);

(6) Stewart et al., "Human Immunodeficiency Virus Type Vpr Induces Apoptosis Following Cell Cycle Arrest." J. Virol. vol. 71, No. 7, pp 5579-5592 (1997);

(7) Arunagiri al., "A C-terminal Domain of HI-1 Accessory Protein Vpr is Involved in Penetration, Mitochondrial Dysfunction and Apoptosis of Human CD4+ Lymphocytes." Apoptosis, vol. 2, No. 1, pp 69-76 (1997);

(8) He, Jianglin et al., "Human Immunodeficiency Virus Type 1 Viral Protein R (Vpr) Arrest Cells in the G2 Phase of the Cell Cycle by Inhibiting p34cdc2 Activity." J. Virol. vol. 69, No. 11, pp 6705-6711 (1995); and

(9) Jowett, Jeremy et al., "The Human Immunodeficiency Virus Type 1 Vpr Gene Arrests Infected T Cells in the G2 + M phase of the Cell Cycle." J. Virol. vol. 69, No. 10, pp 6304-6313 (1997).

Copies of the above-noted document nos. (1) to (4) and a copy of the Translation of the

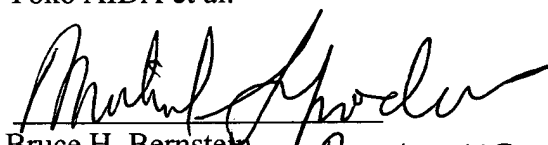
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International Preliminary Examination Report are enclosed together with a duly completed Form PTO-1449. It is presumed that the Examiner has copies of document nos. (5) to (9) from the International Bureau and accordingly copies of these documents are not enclosed so as not to encumber the file. However, if the Examiner needs copies of these documents, the Examiner is requested to call Applicants' attorney. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

In accordance with 37 C.F.R. § 1.97(b)(1), this Information Disclosure Statement is filed within three months of the filing date of the application. Accordingly, no fees are required.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed telephone number.

Respectfully submitted,
Yoko AIDA et al.


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June 22, 2001
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Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P20825	Serial No. 09/787,437
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Yoko AIDA et al.	
				Filing Date March 27, 2001	
				Group Unknown	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	1	J.F. Kerr et al., "Apoptosis: A Basic Biological Phenomenon with Wide-Ranging Implications in Tissue-			
		Kinetics", BR. J. Cancer, Vol. 26, pp. 239-257 (1972).			
	2	Akio Adachi et al., "Production of Acquired Immunodeficiency Syndrome-Associated Retrovirus in			
		Human and Nonhuman Cells Transfected with an Infectious Molecular Clone", Journal of Virology,			
		Vol. 59, No. 2, pp. 284-291 (1986).			
	3	Wilfried Kramer et al., "Oligonucleotide-Directed Construction of Mutations via Gapped Duplex			
		DNA", in Methods in Enzymology, Vol. 154, pp. 350-367 (1987).			
	4	"Basic Methodology" in PCR Technology, pp. 1-5 (Erich editor, Stockton Press 1989).			
	5	Ayyavoo et al., "HIV-1 Vpr Suppress Immune Activation and Apoptosis Through Regulation of Nuclear			
		Factor Kappa B." Nat. Med. (N.Y.) vol. 3, No. 10, pp 1117-1123 (1997).			
	6	Stewart et al., "Human Immunodeficiency Virus Type Vpr Induces Apoptosis Following Cell Cycle			
		Arrest." J. Virol. vol. 71, No. 7, pp 5579-5592 (1997).			
	7	Arunagiri al., "A C-terminal Domain of HI-1 Accessory Protein Vpr is Involved in Penetration,			
		Mitochondrial Dysfunction and Apoptosis of Human CD4+ Lymphocytes." Apoptosis, vol. 2, No. 1,			
		pp 69-76 (1997).			
	8	He, Jianglin et al., "Human Immunodeficiency Virus Type 1 Viral Protein R (Vpr) Arrest Cells in the G2			
		Phase of the Cell Cycle by Inhibiting p34cdc2 Activity." J. Virol. vol. 69, No. 11, pp 6705-6711 (1995).			
	9	Jowett, Jeremy et al., "The Human Immunodeficiency Virus Type 1 Vpr Gene Arrests Infected T Cells in			
		the G2 + M phase of the Cell Cycle." J. Virol. vol. 69, No. 10, pp 6304-6313 (1997).			
EXAMINER			DATE CONSIDERED		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					